

**System and Method for Balancing Computational Load
Across a Plurality of Processors**

ABSTRACT

A system and method for balancing computational load
5 across a plurality of processors. Source code subtasks are
compiled into byte code subtasks whereby the byte code
subtasks are translated into processor-specific object code
subtasks at runtime. The processor-type selection is based
upon one of three approaches which are 1) a brute force
10 approach, 2) higher-level approach, or 3) processor
availability approach. Each object code subtask is loaded
in a corresponding processor type for execution. In one
embodiment, a compiler stores a pointer in a byte code file
that references the location of a byte code subtask. In
15 this embodiment, the byte code subtask is stored in a
shared library and, at runtime, a runtime loader uses the
pointer to identify the location of the byte code subtask
in order to translate the byte code subtask.